## / Descriptions

WR0553 ṂṂ Ꝉ SQS ÆṀ ч s ‖ ᒣ Silicon PNP transistor in a TO-220 Plastic Package.

## / Features

´ ╚ Ɔ ╚ щ ` ᴝ ı ؏ Ɔ ‖ к ʌ ṃ ‖ ` Ⲗ Ɔ Я ᴝ ı ᴝ Ɔ ╚ щ ` 0 Ṿ Ḵ Ⲗ ı ль PMH4836; Ӣ ´

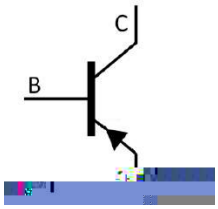
High DC current gain, High $V_{CEO}$, High $f_T$, Complementary pair with MJE15036.

## / Applications

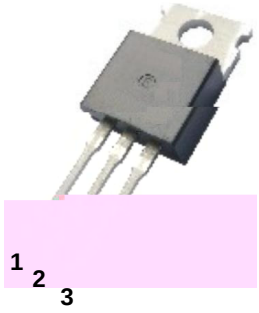
ᵮ ı ' ѽ ᶻ ʜ OBJ ᴝ ḽ ɨ ʊ

Designed for us as high-frequency drivers in audio amplifiers.

## / Equivalent Circuit




## / Pinning




PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

## / $h_{FE}$ Classifications & Marking

ծ м ϒ ب ˝ See Marking Instructions.

## / Absolute Maximum Ratings(Ta=25 )

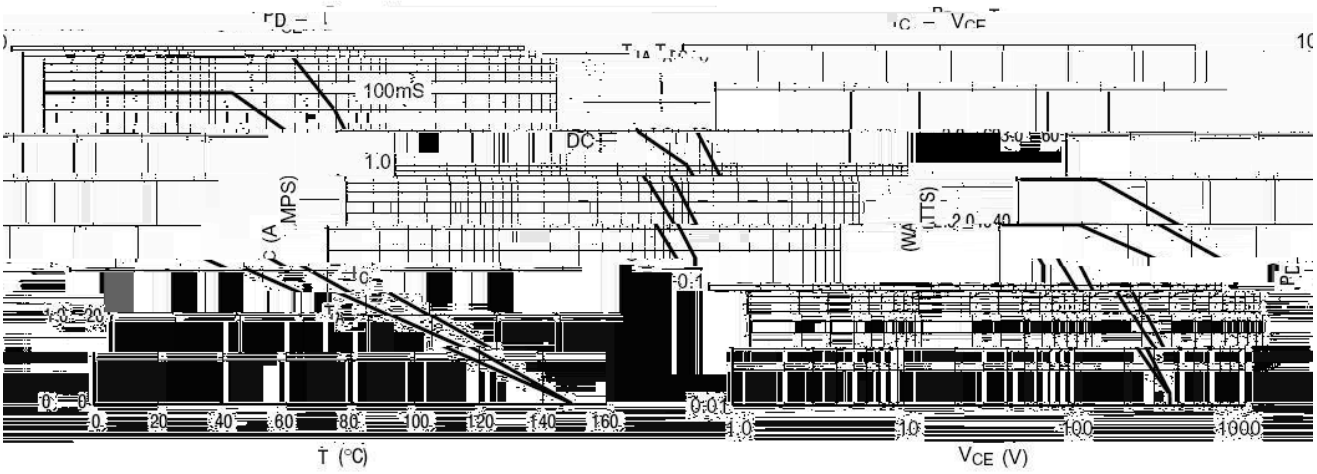
| v ̈Ọ<br>Parameter | ϒ N<br>Symbol | ̈Ọ Ö<br>Rating | D Ꮋ<br>Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | -350 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | -350 | V |
| Emitter to Base Voltage | $V_{EBO}$ | -5 | V |
| Collector Current - Continuous | $I_C$ | -8 | A |
| Base Current - Continuous | $I_B$ | -2 | A |
| Collector Power Dissipation | $P_D$ | 2 | W |
| | $P_D$(Tc=25 ) | 80 | W |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -65 150 | |
| Thermal Resistance, Junction to Case | $R_{\theta JC}$ | 2.5 | /W |
| Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 62.5 | /W |

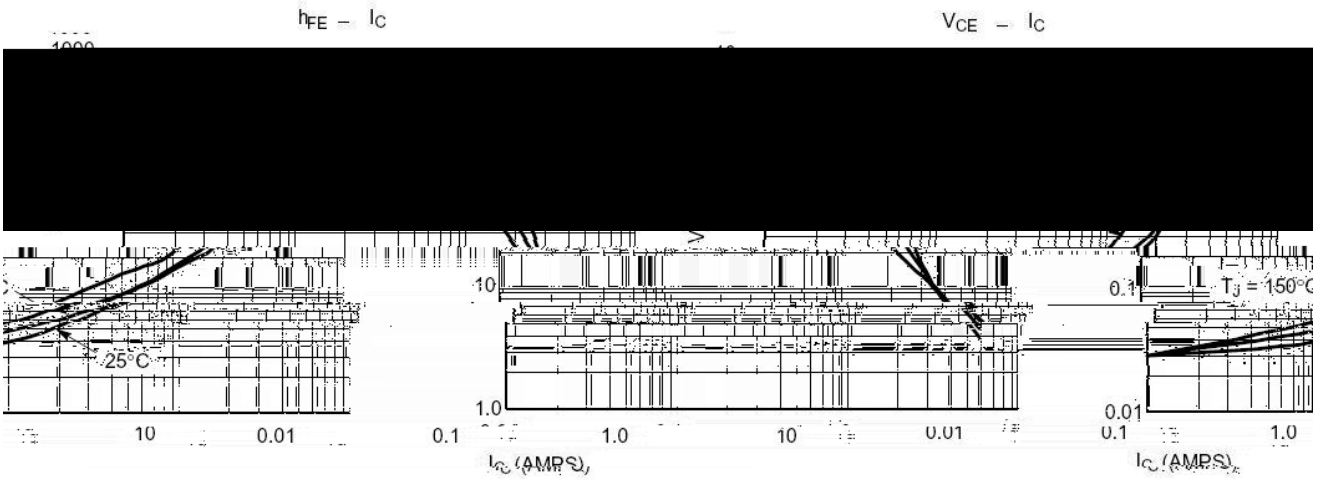
## / Electrical Characteristics(Ta=25 )

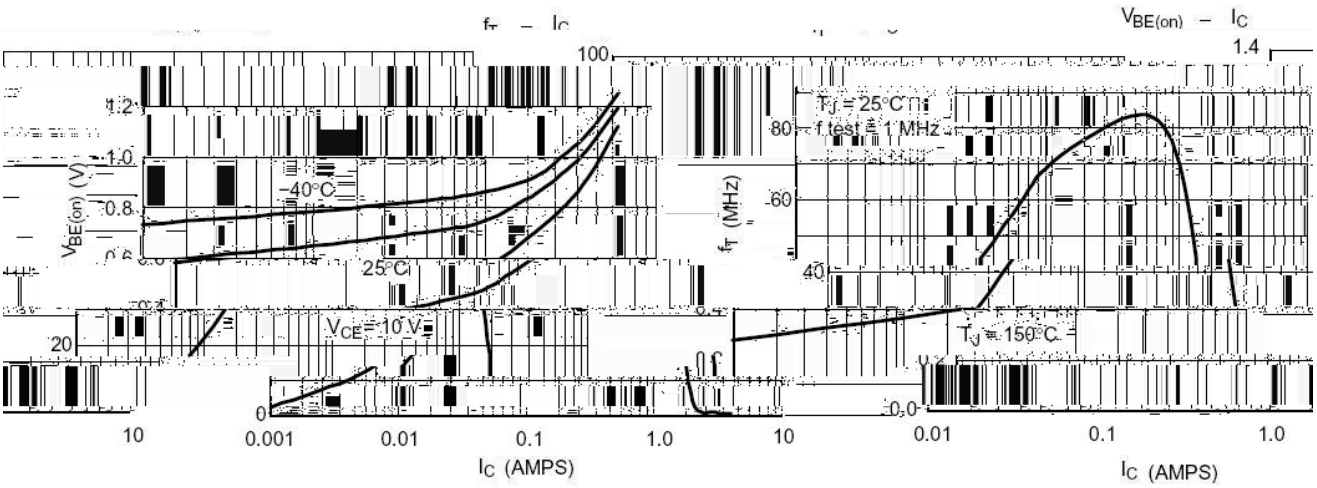
| v ̈Ọ<br>Parameter | ϒ N<br>Symbol | ⅄ :† Ţ<br>Test Conditions | ѡ ṇ Ö<br>Min | Ɛ ʒ Ö<br>Typ | ѡ ᶻ Ö<br>Max | D Ꮋ<br>Unit |
|---|---|---|---|---|---|---|
| Collector to Emitter Breakdown Voltage | *$V_{CEO}$ | $I_C$=-10mA $I_B$=0 | -350 | | | V |
| Collector Cut-Off Current | $I_{CBO}$ | $V_{CB}$=-350V $I_E$=0 | | | -30 | μA |
| Emitter Cut-Off Current | $I_{EBO}$ | $V_{BE}$=-5V $I_C$=0 | | | -30 | μA |
| DC Current Gain | *$h_{FE(1)}$ | $V_{CE}$=-5V $I_C$=-0.5A | 100 | | 500 | |
| | *$h_{FE(2)}$ | $V_{CE}$=-5V $I_C$=-0.1A | 100 | | | |
| | *$h_{FE(3)}$ | $V_{CE}$=-5V $I_C$=-1A | 5 | | | |
| | $h_{FE(4)}$ | $V_{CE}$=-5V $I_C$=-2A | 10 | | | |
| Collector to Emitter Saturation Voltage | *$V_{CE(sat)}$ | $I_C$=-1A $I_B$=0.1A | | | -0.5 | V |
| Base to Emitter On Voltage | *$V_{BE(on)}$ | $V_{CE}$=5V $I_C$=-1A | | | -1 | V |
| Transition Frequency | $f_T$ | $V_{CE}$=-10V $I_C$=-500mA f=1MHz | 30 | | | MHz |

- ỉ ˙ ⅄ : χ ỉ K̲ v633μv ı ¦ Ⅵ ⅝ v5 ( *Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%.

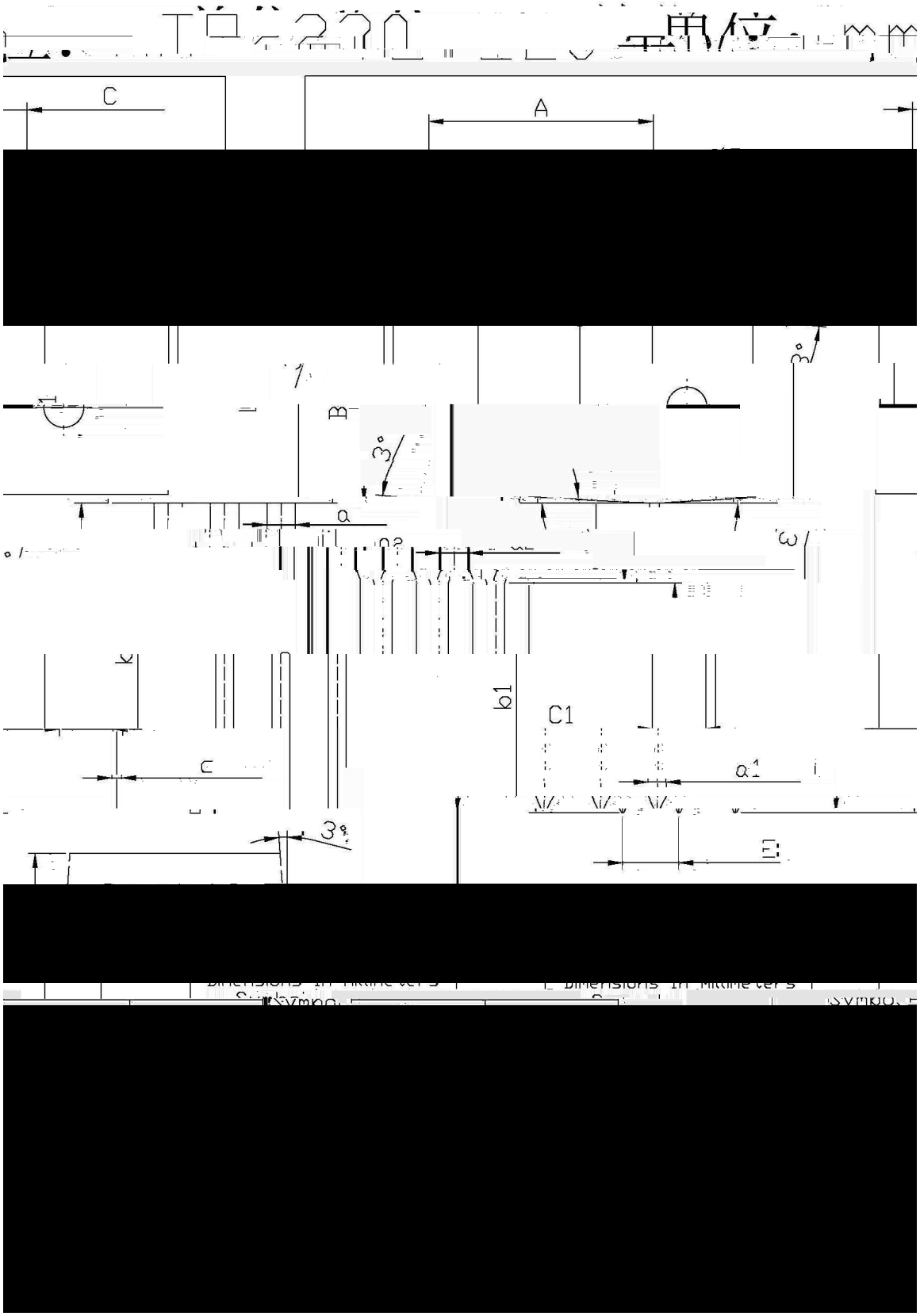
## / Electrical Characteristic Curve



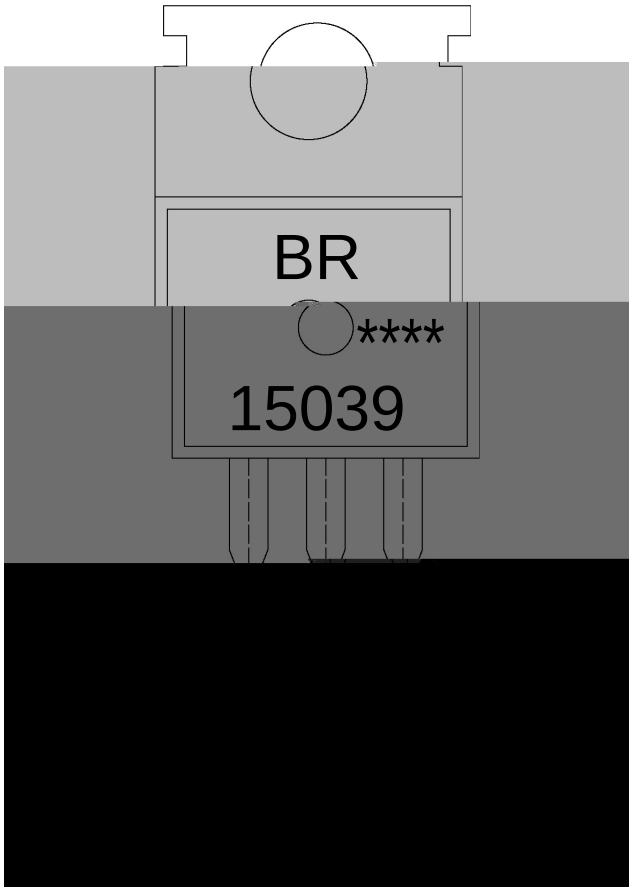



## / Package Dimensions



## / Marking Instructions




| | |
|---|---|
| ͡ ˝ χ | |
| BR χ | ѭ ϗ ᴎ Ղ ϧ |
| 15039 χ | ѭ ϳ ᴺ Ղ ϧ |
| ---- χ | ѭ ı ғ ή ᴺ Ղ ϧ ı ₺ ı ғ ή ᴺ Ψ ϙ |

Note:

| | |
|---|---|
| BR: | Company Code |
| 15039: | Product Type. |
| ****: | Lot No. Code, code change with Lot No. |

**(**